

Serial Number:

09/051,8430

ENTERED

1600
2/17/2003

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



1600

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

3 <110> APPLICANT: Willson, Tracey
 4 Nicola , Nicos
 5 Hilton, Douglas
 6 Metcalf, Donald
 7 Zhang , Jian
 9 <120> TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 same
 11 <130> FILE REFERENCE: 11373
 13 <140> CURRENT APPLICATION NUMBER: US 09/051843D
 14 <141> CURRENT FILING DATE: 1998-06-29
 16 <150> PRIOR APPLICATION NUMBER: AU PN6135
 17 <151> PRIOR FILING DATE: 1995-10-23
 19 <150> PRIOR APPLICATION NUMBER: AU PN7276
 20 <151> PRIOR FILING DATE: 1995-12-22
 22 <150> PRIOR APPLICATION NUMBER: AU PP2208
 23 <151> PRIOR FILING DATE: 1996-09-09
 25 <160> NUMBER OF SEQ ID NOS: 12
 27 <170> SOFTWARE: PatentIn version 3.1
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 1680
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 32 <213> ORGANISM: Mus musculus
 34 <220> FEATURE:
 35 <221> NAME/KEY: CDS
 36 <222> LOCATION: (61)..(1332)
 37 <223> OTHER INFORMATION:
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 43 Met Ala Arg Pro Ala Leu Leu Gly Glu Leu Leu Val Leu Leu Leu Trp
 44 1 5 10 15
 46 acc gcc acc gtg ggc caa gtt gcc gcg gcc aca gaa gtt cag cca cct 156
 47 Thr Ala Thr Val Gly Gln Val Ala Ala Ala Thr Glu Val Gln Pro Pro
 48 20 25 30
 50 gtg acg aat ttg agc gtc tct gtc gaa aat ctc tgc acg ata ata tgg 204
 51 Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Ile Ile Trp
 52 35 40 45
 54 acg tgg agt cct cct gaa gga gcc agt cca aat tgc act ctc aga tat 252
 55 Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg Tyr
 56 50 55 60
 58 ttt agt cac ttt gat gac caa cag gat aag aaa att gct cca gaa act 300
 59 Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu Thr
 60 65 70 75 80
 62 cat cgt aaa gag gaa tta ccc ctg gat gag aaa atc tgt ctg cag gtg 348

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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67 Gly Ser Gln Cys Ser Ala Asn Glu Ser Glu Lys Pro Ser Pro Leu Val
68      100      105      110
70 aaa aag tgc atc tca ccc cct gaa ggt gat cct gag tcc gct gtg act      444
71 Lys Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val Thr
72      115      120      125
74 gag ctc aag tgc att tgg cat aac ctg agc tat atg aag tgt tcc tgg      492
75 Glu Leu Lys Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser Trp
76      130      135      140
78 ctc cct gga agg aat aca agc cct gac aca cac tat act ctg tac tat      540
79 Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr His Tyr Thr Leu Tyr Tyr
80 145      150      155      160
82 tgg tac agc agc ctg gag aaa agt cgt caa tgt gaa aac atc tat aga      588
83 Trp Tyr Ser Ser Leu Glu Lys Ser Arg Gln Cys Glu Asn Ile Tyr Arg
84      165      170      175
86 gaa ggt caa cac att gct tgt tcc ttt aaa ttg act aaa gtg gaa cct      636
87 Glu Gly Gln His Ile Ala Cys Ser Phe Lys Leu Thr Lys Val Glu Pro
88      180      185      190
90 agt ttt gaa cat cag aac gtt caa ata atg gtc aag gat aat gct ggg      684
91 Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn Ala Gly
92      195      200      205
94 aaa att agg cca tcc tgc aaa ata gtg tct tta act tcc tat gtg aaa      732
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96      210      215      220
98 cct gat cct cca cat att aaa cat ctt ctc ctc aaa aat ggt gcc tta      780
99 Pro Asp Pro Pro His Ile Lys His Leu Leu Leu Lys Asn Gly Ala Leu
100 225      230      235      240
102 tta gtg cag tgg aag aat cca caa aat ttt aga agc aga tgc tta act      828
103 Leu Val Gln Trp Lys Asn Pro Gln Asn Phe Arg Ser Arg Cys Leu Thr
104      245      250      255
106 tat gaa gtg gag gtc aat aat act caa acc gac cga cat aat att tta      876
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108      260      265      270
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111 Glu Val Glu Glu Asp Lys Cys Gln Asn Ser Glu Ser Asp Arg Asn Met
112      275      280      285
114 gag ggt aca agt tgt ttc caa ctc cct ggt gtt ctt gcc gac gct gtc      972
115 Glu Gly Thr Ser Cys Phe Gln Leu Pro Gly Val Leu Ala Asp Ala Val
116      290      295      300
118 tac aca gtc aga gta aga gtc aaa aca aac aag tta tgc ttt gat gac      1020
119 Tyr Thr Val Arg Val Arg Val Lys Thr Asn Lys Leu Cys Phe Asp Asp
120 305      310      315      320
122 aac aaa ctg tgg agt gat tgg agt gaa gca cag agt ata ggt aag gag      1068
123 Asn Lys Leu Trp Ser Asp Trp Ser Glu Ala Gln Ser Ile Gly Lys Glu
124      325      330      335
126 caa aac tcc acc ttc tac acc acc atg tta ctc acc att cca gtc ttt      1116
127 Gln Asn Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro Val Phe

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RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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130 gtc gca gtg gca gtc ata atc ctc ctt ttt tac ctg aaa agg ctt aag      1164
131 Val Ala Val Ala Val Ile Ile Leu Leu Phe Tyr Leu Lys Arg Leu Lys
132          355          360          365
134 atc att ata ttt cct cca att cct gat cct ggc aag att ttt aaa gaa      1212
135 Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu
136          370          375          380
138 atg ttt gga gac cag aat gat gat acc ctg cac tgg aag aag tat gac      1260
139 Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp
140 385          390          395          400
142 atc tat gag aaa caa tcc aaa gaa gaa acg gat tct gta gtg ctg ata      1308
143 Ile Tyr Glu Lys Gln Ser Lys Glu Glu Thr Asp Ser Val Val Leu Ile
144          405          410          415
146 gaa aac ctg aag aaa gca gct cct tgatggggag aagtgatttc tttcttgccct      1362
147 Glu Asn Leu Lys Lys Ala Ala Pro
148          420
150 tcaatgtgac cctgtgaaga tttattgcat tctccatttg ttatctgggg gacttggttaa      1422
152 atagaaactg aaactactct tgaaaaacag gcagctccta agagccacag gtcttgatgt      1482
154 gacttttgca ttgaaaaccc aaacccaaag gagctccttc caagaaaagc aagagttcct      1542
156 ctcgttcctt gttccaatcc ctaaaagcag atgttttgcc aaatccccaactagaggac      1602
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165 <212> TYPE: PRT
166 <213> ORGANISM: Mus musculus
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175          20          25          30
178 Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Ile Ile Trp
179          35          40          45
182 Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg Tyr
183          50          55          60
186 Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu Thr
187 65          70          75          80
190 His Arg Lys Glu Glu Leu Pro Leu Asp Glu Lys Ile Cys Leu Gln Val
191          85          90          95
194 Gly Ser Gln Cys Ser Ala Asn Glu Ser Glu Lys Pro Ser Pro Leu Val
195          100          105          110
198 Lys Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val Thr
199          115          120          125
202 Glu Leu Lys Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser Trp
203          130          135          140
206 Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr His Tyr Thr Leu Tyr Tyr
207 145          150          155          160
210 Trp Tyr Ser Ser Leu Glu Lys Ser Arg Gln Cys Glu Asn Ile Tyr Arg
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RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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 218 Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn Ala Gly
 219 195 200 205
 222 Lys Ile Arg Pro Ser Cys Lys Ile Val Ser Leu Thr Ser Tyr Val Lys
 223 210 215 220
 226 Pro Asp Pro Pro His Ile Lys His Leu Leu Leu Lys Asn Gly Ala Leu
 227 225 230 235 240
 230 Leu Val Gln Trp Lys Asn Pro Gln Asn Phe Arg Ser Arg Cys Leu Thr
 231 245 250 255
 234 Tyr Glu Val Glu Val Asn Asn Thr Gln Thr Asp Arg His Asn Ile Leu
 235 260 265 270
 238 Glu Val Glu Glu Asp Lys Cys Gln Asn Ser Glu Ser Asp Arg Asn Met
 239 275 280 285
 242 Glu Gly Thr Ser Cys Phe Gln Leu Pro Gly Val Leu Ala Asp Ala Val
 243 290 295 300
 246 Tyr Thr Val Arg Val Arg Val Lys Thr Asn Lys Leu Cys Phe Asp Asp
 247 305 310 315 320
 250 Asn Lys Leu Trp Ser Asp Trp Ser Glu Ala Gln Ser Ile Gly Lys Glu
 251 325 330 335
 254 Gln Asn Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro Val Phe
 255 340 345 350
 258 Val Ala Val Ala Val Ile Ile Leu Leu Phe Tyr Leu Lys Arg Leu Lys
 259 355 360 365
 262 Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu
 263 370 375 380
 266 Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp
 267 385 390 395 400
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278 <210> SEQ ID NO: 3

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280 <212> TYPE: DNA

281 <213> ORGANISM: human

283 <220> FEATURE:

284 <221> NAME/KEY: CDS

285 <222> LOCATION: (61)..(1338)

286 <223> OTHER INFORMATION:

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 292 Met Glu Trp Pro Ala Arg Leu Cys Gly Leu Trp Ala Leu Leu Leu Cys
 293 1 5 10 15
 295 gcc ggc ggc ggc ggc ggc ggc ggc ggc ggc cct acg gaa act cag cca 156
 296 Ala Gly Gly Gly Gly Gly Gly Gly Gly Ala Pro Thr Glu Thr Gln Pro
 297 20 25 30
 299 cct gtg aca aat ttg agt gtc tct gtt gaa aac ctc tgc aca gta ata 204

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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304	Trp	Thr	Trp	Asn	Pro	Pro	Glu	Gly	Ala	Ser	Ser	Asn	Cys	Ser	Leu	Trp	
305		50					55					60					
307	tat	ttt	agt	cat	ttt	ggc	gac	aaa	caa	gat	aag	aaa	ata	gct	ccg	gaa	300
308	Tyr	Phe	Ser	His	Phe	Gly	Asp	Lys	Gln	Asp	Lys	Lys	Ile	Ala	Pro	Glu	
309	65					70				75					80		
311	act	cgt	cgt	tca	ata	gaa	gta	ccc	ctg	aat	gag	agg	att	tgt	ctg	caa	348
312	Thr	Arg	Arg	Ser	Ile	Glu	Val	Pro	Leu	Asn	Glu	Arg	Ile	Cys	Leu	Gln	
313					85					90					95		
315	gtg	ggg	tcc	cag	tgt	agc	acc	aat	gag	agt	gag	aag	cct	agc	att	ttg	396
316	Val	Gly	Ser	Gln	Cys	Ser	Thr	Asn	Glu	Ser	Glu	Lys	Pro	Ser	Ile	Leu	
317				100					105					110			
319	gtt	gaa	aaa	tgc	atc	tca	ccc	cca	gaa	ggt	gat	cct	gag	tct	gct	gtg	444
320	Val	Glu	Lys	Cys	Ile	Ser	Pro	Pro	Glu	Gly	Asp	Pro	Glu	Ser	Ala	Val	
321			115					120					125				
323	act	gaa	ctt	caa	tgc	att	tgg	cac	aac	ctg	agc	tac	atg	aag	tgt	tct	492
324	Thr	Glu	Leu	Gln	Cys	Ile	Trp	His	Asn	Leu	Ser	Tyr	Met	Lys	Cys	Ser	
325		130					135					140					
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328	Trp	Leu	Pro	Gly	Arg	Asn	Thr	Ser	Pro	Asp	Thr	Asn	Tyr	Thr	Leu	Tyr	
329	145				150					155					160		
331	tat	tgg	cac	aga	agc	ctg	gaa	aaa	att	cat	caa	tgt	gaa	aac	atc	ttt	588
332	Tyr	Trp	His	Arg	Ser	Leu	Glu	Lys	Ile	His	Gln	Cys	Glu	Asn	Ile	Phe	
333				165						170					175		
335	aga	gaa	ggc	caa	tac	ttt	ggt	tgt	tcc	ttt	gat	ctg	acc	aaa	gtg	aag	636
336	Arg	Glu	Gly	Gln	Tyr	Phe	Gly	Cys	Ser	Phe	Asp	Leu	Thr	Lys	Val	Lys	
337				180						185				190			
339	gat	tcc	agt	ttt	gaa	caa	cac	agt	gtc	caa	ata	atg	gtc	aag	gat	aat	684
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341			195					200					205				
343	gca	gga	aaa	att	aaa	cca	tcc	ttc	aat	ata	gtg	cct	tta	act	tcc	cgt	732
344	Ala	Gly	Lys	Ile	Lys	Pro	Ser	Phe	Asn	Ile	Val	Pro	Leu	Thr	Ser	Arg	
345		210					215					220					
347	gtg	aaa	cct	gat	cct	cca	cat	att	aaa	aac	ctc	tcc	ttc	cac	aat	gat	780
348	Val	Lys	Pro	Asp	Pro	Pro	His	Ile	Lys	Asn	Leu	Ser	Phe	His	Asn	Asp	
349	225				230					235					240		
351	gac	cta	tat	gtg	caa	tgg	gag	aat	cca	cag	aat	ttt	att	agc	aga	tgc	828
352	Asp	Leu	Tyr	Val	Gln	Trp	Glu	Asn	Pro	Gln	Asn	Phe	Ile	Ser	Arg	Cys	
353				245						250					255		
355	cta	ttt	tat	gaa	gta	gaa	gtc	aat	aac	agc	caa	act	gag	aca	cat	aat	876
356	Leu	Phe	Tyr	Glu	Val	Glu	Val	Asn	Asn	Ser	Gln	Thr	Glu	Thr	His	Asn	
357				260						265					270		
359	gtt	ttc	tac	gtc	caa	gag	gct	aaa	tgt	gag	aat	cca	gaa	ttt	gag	aga	924
360	Val	Phe	Tyr	Val	Gln	Glu	Ala	Lys	Cys	Glu	Asn	Pro	Glu	Phe	Glu	Arg	
361			275					280					285				
363	aat	gtg	gag	aat	aca	tct	tgt	ttc	atg	gtc	cct	ggt	gtt	ctt	cct	gat	972
364	Asn	Val	Glu	Asn	Thr	Ser	Cys	Phe	Met	Val	Pro	Gly	Val	Leu	Pro	Asp	

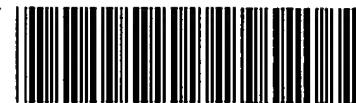
RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2003
PATENT APPLICATION: US/09/051,843D TIME: 19:39:28

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07172003\I051843D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 3
Seq#:10; Xaa Pos. 24
Seq#:11; Xaa Pos. 24



1600

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 08:15:50

Input Set : N:\Crf4\07152003\I051843A.raw

Output Set: N:\CRF4\07172003\I051843D.raw

1 <110> APPLICANT: Willson, Tracey
 2 Nicola , Nicos
 3 Hilton, Douglas
 4 Metcalf, Donald
 5 Zhang , Jian
 6 <120> TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 same
 7 <130> FILE REFERENCE: 11373
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/051,843D
 9 <141> CURRENT FILING DATE: 1998-06-29
 10 <150> PRIOR APPLICATION NUMBER: AU PN6135
 11 <151> PRIOR FILING DATE: 1995-10-23
 12 <150> PRIOR APPLICATION NUMBER: AU PN7276
 13 <151> PRIOR FILING DATE: 1995-12-22
 14 <150> PRIOR APPLICATION NUMBER: AU PP2208
 15 <151> PRIOR FILING DATE: 1996-09-09
 16 <160> NUMBER OF SEQ ID NOS: 12
 17 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

416 <210> SEQ ID NO: 12
 417 <211> LENGTH: 5
 418 <212> TYPE: PRT
 419 <213> ORGANISM: unknown
 420 <220> FEATURE:
 421 <223> OTHER INFORMATION: peptide motif found in many members of the haemopoietin
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 422 family
 423 <400> SEQUENCE: 12
 424 Trp Ser Asp Trp Ser
 425 1 5
 E--> 426

Handwritten signature
 Does Not Comply
 Corrected Diskette Needed

Handwritten circled '1' and 'delete' note

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2003
PATENT APPLICATION: US/09/051,843D TIME: 08:15:51

Input Set : N:\Crf4\07152003\I051843A.raw
Output Set: N:\CRF4\07172003\I051843D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

Seq#:12; Line(s) 421

VERIFICATION SUMMARY

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 08:15:51

Input Set : N:\Crf4\07152003\I051843A.raw

Output Set: N:\CRF4\07172003\I051843D.raw

L:8 M:270 C: Current Application Number differs, Wrong Format
L:27 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:0
L:185 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:426 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12